

TAUBENFLIEGEL, W.; WAJDA, Z.; LEWINSKI, A.

Determination of the condition of vascularization of pedicled
skin grafts (Gillies-Filatov) by the thermoelement. Acta chir.
plast. (Praha) 7 no.3:236-240 '65.

1. The 3rd Surgical Clinic, Medical Academy, Gdansk (Poland)
(Director: Prof. Zdzislaw Kieturakis M.D.).

KOZLOWSKI, W.; RACZYNSKI, S.; TAUBENFLIGEL, W.; KOSSAK, J.; LEWINSKI, A.;
BANASIK, Z.

Experimental studies on the insertion of an electronic pacemaker
of the heart of our construction in the dog. Preliminary commun-
ication. Kardiol. Pol. 8 no.2:125-128 '65.

1. Z III Kliniki Chorob Wewnętrznych (Kierownik: prof. dr.
M. Gański) i z III Kliniki Chirurgicznej AM w Gdańsku (Kierownik:
prof. dr. Z. Kieturakis).

S/269/63/000/004/014/030
A001/A101

AUTHORS: Nestorov, G., Taubenheim, J.

TITLE: A criterion of determining ionization-recombination constants of the E ionospheric layer from observations made during a total solar eclipse

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 4, 1963, 59, abstract 4.51.455 ("Dokl. Bolg. AN", 1962, v. 15, no. 1, 25 - 28, German; Russian summary)

TEXT: The authors propose a method of interpreting ionospheric and radio astronomical observations during total solar eclipses. If there are n discrete radiation sources on the Sun, the total radiation will be as follows:

$$Q = pS_h + \sum_{i=1}^n \delta_i S_i,$$

where S_h is homogeneous radiation of the undisturbed solar disk; p is the magnitude (in per cent) of the disk uncovered part; $\delta_i = q/q_o$, where q and q_o are

Card 1/2

S/269/63/000/004/014/030

A criterion of determining ionization-recombination... A001/A101

ionizing radiation in the eclipse day and in control days. In case of two discrete sources, two instants can be chosen: one between the first and second contacts, and the other - between the third and fourth contacts, for which equations are derived. The solution of these equations, together with the ionization-recombination equation $dN/dt = q - dN^2$ and with the equation $S_h = dQ/dp$, increases the reliability of determining ionization-recombination constants and makes it possible to separate ionizing radiation of the homogeneous disk from ionization of discrete sources.

N. B.

[Abstracter's note: Complete translation]

Card 2/2

43444

9.9130

S/169/62/000/011/075/077
D228/D307

AUTHORS: Nestorov, G. and Taubenheim, J.

TITLE: Recombination factor and ionizing radiation sources
for the E-layer during the total eclipse of February
15, 1961PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1962, 33-34,
abstract 11G214 (Dokl. Bolg. AN, 15, no. 2, 1962,
131-134 (Ger.; summary in Rus.))TEXT: The effective recombination factor of the E-layer
($\alpha_E = 1.10^{-7} \text{ cm}^3 \text{ sec}^{-1}$), the relative ionizing radiation intensity
of the sun's uniform disk ($S_\lambda = 0.57$), and the discrete sources of
the sun's western ($S_1 = 0.26$) and eastern ($S_2 = 0.17$) edges were
determined on the basis of analyzing the results of ionospheric and
radio-astronomic observations during the total solar eclipse of
February 15, 1961. During the total phase $q > 0$ and reaches $\sim 20\%$
of the total amount of radiation.

[Abstracter's note: Complete translation]

Card 1/1

S/203/63/003/002/011/027
D207/D507

AUTHORS: Nestorov, G. and Taubenmann, H.
Rein J.

TITLE: Investigation of the E layer of the ionosphere during the solar eclipse of February 15, 1961

PERIODICAL: Geomagnetizm i aeronomiya, v. 3, no. 2, 1963, 277-285

TEXT: The effective ionospheric recombination coefficient and the distribution of sources of ionizing radiation of the sun's disk were determined simultaneously during the total eclipse of February 15, 1961. For this purpose the critical frequencies f_E of the normal E layer were calculated from measurements in Sofia and Nessebar in Bulgaria during this eclipse. The effective recombination coefficient in the E layer was found to be 10^{-7} cm/sec. This value was used to determine the dependence of the intensity of solar ionizing radiation on time during the eclipse: this dependence was almost exactly parallel to the simultaneously determined variation of the solar radio emission at $\lambda = 20$ cm. The results ...

Card 1/2

Investigation of the E layer ...

S/203/65/003/002/011/027
D207/D307

cate that 43% of the ionizing energy was emitted by two local regions on the eastern and western limbs of the solar disk near its equator. Acknowledgements are made to Doctor O. Khakhenberg for his interest and to Engineers G. Kober, L. Lange and K. Serafimov for carrying out ionospheric measurements and help in the analysis of ionograms. There are 4 figures and 1 table.

ASSOCIATION: Akademiya nauk Bolgarskoy narodnoy respubliki
Academy of Sciences of the Bulgarian People's Republic) Institut Genrikha Gertsa, CDR (Heinrich Hertz Institute, East Germany)

SUBMITTED: September 12, 1962

Card 2/2

NESTOROV, G.; TAUBENHEIM, J.

New experimental data on the accumulation microprocess in ionospheric D-region. Doklady BAN 16 no.6:605-607 '63.

1. Vorgelegt von Akademiemitglied L. Krastanov [Krustanov, L.].

SERAFIMOV, K.; TAUHENHEIM, J.

Quasiperiodic oscillations of electronic density in the F area of the ionosphere. Doklady BAN 16 no.7:709-712'63.

1. Vorgelegt van Akademiemitglied L.Krastanov [Krastanov, L.];
Chlen Redaktsionnoy kollegii i otvetstvennyy redaktor,
"Doklady Bolgarskoy Akademii nauk".

TAUBENSHLAK, P.G., inzhener.

Apparatus for machine riveting. Strei. i der.mashinostr. 1 no.3:36
Mr '56. (MIRA 10:1)
(Rivets and riveting)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120007-3

YAROSLAVSKIY, A.M., inzhener; TAUBENSHLAK, P.G., inzhener.

Mechanization of fitting and assembly operations in manufacturing
electric tools. Stroi. i dor. mashinostr. 2 no. 5:25-31 My '57.
(Electric machinery industry) (MLRA 10:6)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120007-3"

TAUBENSHLAK, P.G., inzh.

Mechanizing assembly work in construction and road machinery
plants. Stroi.i dor.mashinostr. 4 no.4:28-34 Ap '59.
(MIRA 12:5)
(Assembly-line methods)

RAYTSESS, A.M., inzh.; CHERVYAKOV, V.I., inzh.; TAUBENSHLAK, P.G.;

[Universal means for the mechanization of fitting and assembling operations] Universal'nye sredstva mekhanizatsii slesarnykh i slesarno-sborochnykh rabot. Moskva, Otdel tekhn. informatsii, 1962. 132 p. (MIRA 15:11)

1. Russia (1917- R.S.F.S.R.)Moskovskiy gorodskoy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva.
2. Otdel avtomatizatsii i mekhanizatsii slesarnykh i slesarno-sborochnykh rabot Moskovskogo gorodskogo soveta narodnogo khozyaystva (for Raytseess, Chervyakov).
3. Nachal'nik otdela avtomatizatsii i mekhanizatsii sborochnykh rabot Moskovskogo gorodskogo soveta narodnogo khozyaystva (for Taubenshlak).

(Machine-shop practice)

TAUBER, A.

Some observations on State Standard 4907-55 "Industrial constructions. Rules for Static calculation of construction elements under the loads of electric traveling cranes," p. 118.
(Standardizarea, Vol. 9, No. 3, Mar. 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

TAUBER, Arnost, dr.

Symposium on the scientific research in agriculture and forestry
in underdeveloped countries. Vest ust zemedel 11 no. 7:271-275
J1 '64.

1. Institute of Scientific and Technological Information,
Ministry of Agriculture, Forestry and Water Resources Management,
Prague.

KHAR'KOV, A.A., dots., ovt. red.; RYVKIN, M.S., dots., red.;
MERZLYAKOVA, Z.S., st. prepod., red.; PARSHUKOV, B.V.,
st. prepod., red.; TAUBER, A.I., st. prepod., red.

[Abstracts of reports of the Zonal Scientific and technological Conference of Teachers of Physics, Methodology of Physics, and General Technical Subjects in the Pedagogical Institutes of Siberia and the Ural Mountain Region]
Tezisy dokladov Zonal'noy nauchno-tehnicheskoy konferentsii prepodavateley fiziki, metodiki fiziki i obshchetechnicheskikh distsiplin pedagogicheskikh institutov Sibiri i Urala. Novosibirsk, Novosibirskii gos. pedagog. in-t, 1962. 167 p.

(MIRA 16:11)

1. Zonal'naya nauchno-tehnicheskaya konferentsiya prepodavateley fiziki, metodiki fiziki i obshchetechnicheskikh distsiplin pedagogicheskikh institutov Sibiri i Urala. 5th, 1962.

(Physics—Study and teaching)

(Technical education)

TAUBER, B. A. Docent

PA 45/49T32

USSR/Engineering
Welding, Autogenous
Locomotives

Mar 49

"Mechanization of Assembly-Welding Works," Docent
B. A. Tauber, Cand Tech Sci, 1 p

"Avtogennoye Delo" No 3

Explains how Kolomensk Locomotive-Bldg Plant modified the USA-2 nozzle for use in a setup for automatic welding of Series L locomotive boilers.

45/49T32

TAUBER, B. A.

Sborochno-svarochnye prispособления и механизмы. Москва, Mashgiz, 1951. 414 p. illus.
Bibliography: p. 413

Welding assembly jogs and mechanisms.

DLC: TS 227.T3

SO: Manufacturing and Mechanical Engineering in the Soviet Union. Library of Congress,
1953.

TAUBER, B. A.

Hoisting and transporting machinery in the lumber industry; textbook Moskva, Goslesbumizdat, 1952. 532 p. (54-18974)

TJ1350.T38

TAUER, B.A.

GATSKOVICH, V., inshener.

Good textbook for schools of higher learning of the lumber industry
("Hoisting and transporting machinery in the lumber industry." (kandidat
tekhnicheskikh nauk) B.A.Tauber. Reviewed by V.Gatskovich). Les.prom.
14 no.4:p.3 of cover. Ap '54. (MLRA 7:4)
(Lumbering--Machinery) (Tauber, B.A.)

TAUBER, B. A., Doc Tech Sci -- (diss) "Bases of the Theory of
Cable Grab Mechanisms." Mos, 1957. 42 pp with ill. (Min of
Higher Education USSR, Mos Forestry Engineering Inst), 110
copies. List of author's works, p 42 (13 titles). (KL, 52-57,
106)

- 40 -

SOV/124-58-5-5031

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 13 (USSR)

AUTHOR: Tauber, B.A.

TITLE: A Structural Investigation of Scoop-bucket Mechanisms (Strukturnoye issledovaniye greyferykh mekhanizmov)

PERIODICAL: Nauchn. tr. Mosk. lesotekhn. in-t, 1957, Nr 7, pp 5-34

ABSTRACT: An examination is made of the structure of various types of scoop-bucket mechanisms. The investigative procedure adopted is that of replacing the flexible links of a mechanism by corresponding rigid links; this makes it possible to use the Assur method for the structural analysis of the mechanisms.

V.A. Zinov'yev

- 1. Dippers--Structural analysis
- 2. Dippers--Test methods
- 3. Mechanics

Card 1/1

SOV/124-58-5-5030

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 13 (USSR)

AUTHOR: Tauber, B.A.

TITLE: A Kinematic Investigation of Scoop-bucket Mechanisms (Kinematicheskoye issledovaniye greyferykh mekhanizmov)

PERIODICAL: Nauchn. tr. Mosk. lesotekhn. in-t., 1957, Nr 7, pp 35-60

ABSTRACT: A method is expounded for plotting scooping curves for scoop buckets, taking into account the factors influencing the shape of the curves. The author deals also with the question of determining the respective velocities and accelerations of the links of a scoop-bucket linkage. The methods proposed are used to investigate the influence exerted by the shape of a scoop-bucket's jaws on its scooping action.

V.A. Zinov'yev

- 1. Dippers--Performance 2. Dynamics 3. Mechanics
- 4. Mathematics--Applications

Card 1/1

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120007-3

TAUBER, B.A., dets., kand.tekhn.nauk

Experimental investigation of vibration bucket hoists used for
lifting long-sized lumber. Nauch.trudy MFTI no.7:119-138 '57.
(MIRA 11:11)

(Lumbering--Machinery)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120007-3"

TAUBER, B.A., kand.tekhn.nauk

Mechanizing loading at the lower landing. Mekh.trud.rab. 11
no.9:36-38 S '57. (MIRA 10:11)
(Lumbering) (Loading and unloading)

TAUHER, B.A., kand.tekhn.nauk, dotsent.

Theory and design of cable grab mechanisms. Vest.mash. 37 no.10:3-12
0 '57. (MIRA 10:11)
(Excavating machinery) (Mechanical movements)

TÄUBER, D. A.

AUTHOR: None Given SOV-118-58-7-7/20

TITLE: A Scientific-Technical Conference on Questions Regarding the Mechanization of the Lumber Industry (Nauchno-tehnicheskaya konferentsiya po voprosam mekhanizatsii v lesnoy promyshlennosti)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958, Nr 7, p 19, (USSR)

ABSTRACT: In May 1958, the Moskovskiy lesotekhnicheskiy institut (the Moscow Institute of Forest Engineering) called a scientific conference. Attending were approximately 300 persons, among them representatives from the Gor'kovskiy (Gor'kiy), Kalininskiy (Kalinin), Kirovskiy (Kirov), Komi, Permskiy (Perm'), Tyumenskiy (Tyumen') and Moskovskiy (Moscow) sovnarkhozes. Also attending were delegates from big lumber enterprises, lumber mills, furniture factories; the Gosudarstvennyy nauchno-tehnicheskiy komitet Soveta Ministrov SSSR (State Scientific Technical Committee of the USSR Council of Ministers), the USSR Gosplan, the TsNIIME, the TsNIIMOD, the Giprolesprom and from other organizations. The Member-Correspondent of the VASKhNIL, N.P. Anuchin reported on the future development of the Soviet lumber industry (1959 to 1965). The Chief Engineer of the Krestetskiy-lespromkhoz TsNIIME (the Kresttsy Lespromkhoz) reported on a semi-automatic conveyer line introduced at

Card 1/ 3

SOV-118-58-7-7/27

A Scientific-Technical Conference on Questions Regarding the Mechanization
of the Lumber Industry

the Krasnaya lespromkhoz. The Candidate of Technical Sciences,
B.A. Tauber delivered a report on the mechanization of lumber
loading and stacking operations. The following reports were
also heard: Dotsent N.I. Suboch - "The Present State and Development
Methods of Traction Machinery in Lumber Transportation"; Doc-
tudent M.I. Saltykov - "The All-Round Utilization of Raw Material
and the Organization of Lumber Industry on the Principle of
Continuous Forest Use"; Candidate of Technical Sciences, G.A.
Vil'ke - "The Vibration of Gasoline Motor Saws"; scientific
worker, V.V. Kharitonov - "Choosing a Method of Bark Strip-
ping"; Dotsent M.I. Kishinskiy - "The Transportation of Lumber
by Motor Transport in Winter"; Professor M.I. Zaychik - "The
Exploitation of Diesel Engines at Shops"; Professor N.N. Chu-
litskiy - "Investigations on New Technological Equipment for
Production Line and Automated Furniture Production"; Head of
the Tekhnologicheskiy otdel proyektnogo instituta Nr 2 (Tech-
nological Division of the Nr 2 Design - Institute), V.A.

Card 2/3

SOV-118-58-7-7/27

A Scientific-Technical Conference on Questions Regarding the Mechanization
of the Lumber Industry

Tselebrovskiy - "Mechanization and Automation of Production Pro-
cesses at the Raw Material Exchange Center of the Omutninsk
House Construction Combine".

1. Lumber industry--USSR

Card 3/3

TAUDER, Boris Abramovich, prof., doktor tekhn.nauk; GORA, V.Ye., inzh.,
retsensent; SYTHIK, N.A., inzh., red.; CHERNOVA, Z.I., tekhn.red.

[Grab mechanisms; theory, design, and construction] Greifernye
mekhanizmy; teoriia, raschet i konstruktsii. Moskva, Gos.nauchno-
tekhn.izd-vo mashinostroit.lit-ry, 1960. 326 p.

(MIRA 13:11)

(Cranes, derricks, etc) (Excavating machinery)

TAUBER, B.A., prof. doktor tekm. nauk

Some problems in the kinematics and dynamics of grab mechanisms.
Nauch. trudy MLTI no.11:5-30 '61 (MIRA 18:1)

MOVNIN, Mikhail Savel'yevich, doktor tekhn. nauk, prof.; MITINSKIY, Arsenii Nikolayevich, prof. [deceased]; prinyal uchastiye: GOL'TSIKER, D.G., inzh.; BORISOV, V.N., dotsent, kand. tekhn. nauk, retsenzent; SAMUILLO, V.O., V.O. dots., retsenzent; TAUBER, B.A., prof., retsenzent; CHERNAVSKIY, S.A., dotsent, retsenzent; ITSKOVICH, G.M., inzh., nauchnyy red.; PITERMAN, Ye.L., red. izd-va; PARAKHINA, N.L., tekhn. red.

[Technical mechanics; strength of materials, theory of mechanisms and machines. Machine parts] Tekhnicheskaja mekhanika; sprotevlenie materialov; teoriia mekhanizmov i mashin. Detali mashin. Izd. 2., perar. Moskva, Goslesbumizdat, 1961. 781 p. (MIRA 14:6)
(Mechanical engineering) (Strength of materials)

TAUBER, Boris Abramovich, prof., doktor tekhn. nauk; FROLOV, A.V.,
retsenzent; MUSINYAN, T.M., red.; PROTANSKAYA, I.V., red.
izd-va; VDOVINA, V.M., tekhn. red.

[Hoisting and conveying machines] Podzemno-transportnye ma-
shiny. 2. izd. Moskva, Goslesbumizdat, 1962. 633 p.
(MIRA 16:5)

1. Glavnyy konstruktor Gosudarstvennogo instituta po pro-
yektirovaniyu novykh mashin dlya lesozagotovok i splava
(for Frolov).
(Hoisting machinery) (Conveying machinery)

PLOTNIKOV, M.A.; YEVSTIFEEVA, T.V.; TAUBER, B.A.; PETROV, V.Ye.;
ZAV'YALOV, M.A.; NAZAROV, V.V.; ANOPOL'SKIY, M.G.;
OBRAZTSOV, S.A.; BANN, A.I.; GATSKEVICH, V.A.; CHEVAZHEVSKIY,
A.P.; DRANISHNIKOV, L.G., retsenzent; ALKEYEV, N.F., otv.
red.; SLUTSKER, M.Z., red. izd-va; VDOVINA, V.M., tekhn.
red.

[Lumbering camps; mechanization of work at lower timber
landings. A handbook] Lesozagotovki; mekhanizatsiya rabot na
nizhnikh skladakh. Spravochnik. Moskva, Goslesbumizdat, 1962.
(MIRA 16:6)
441 p.

(Lumbering)

SOURCE: Mekhanizatsiya i automatizatsiya polivuliva, no. 7, 1968, 12/13
SOURCE: Soviet product storage facility, industrial automation, crane, hoist-

Card 1/2

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120007-3

TAUBER, B.A., doktor tekhn. nauk.

Basic trends in the mechanization of lumber loading, unloading
and storage operations. Mekh. i avtom. proizv. 19 no. 7:13-18
(MIRA 18:9)
Jl '65.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120007-3"

TAUBER, B. M.

The Antarctic. Part I: Fundamental features of climate and weather.
(In Russian)
Leningrad, Hydrometeorological Publishing House, 1956,
148 p., num. figs., tables, charts.

✓ 72-53 Tsvetkov, G. M. Kharakteristika vodushnykh mass nad O. Dikson. [On the properties of air masses over Dickson Island.] Meteorologicheskaya Glaciologiya, No. 9/10, 88-99, 1938. 6 figs.

551.515.8:551.52/4
9 tables. DWB. - English summary with tabular data available as: Stone, R. G., The lapse rates in different air masses at Dickson Island, West Siberia. American Meteorological Society, Bulletin, 20(9):376-378, Nov. 1939. DWB. - Of 95 radiosonde observations made at Dickson Island in 1935-37, 80% contained one or more inversions. Soundings were made in every month, but mainly in the spring and summer. Tables give the number of cases with inversion bases and tops in specified height ranges according to air mass; and frequencies of specified amounts of temperature increase. The majority of the inversions were below 3000 m, the bases mostly between 150 and 600 m and the tops mostly between 1500 and 4000 m. Heat conduction and surface radiation were factors in the formation of inversions. Same item as 15-41 Jan 1946 U.S.A. Subject Headings: 1. Temperature inversions 2. Temperature gradient in Arctic 3. Lapse rates 4. Dickson Island.

- R.S.Q.

TAUBER, G. M. Cand. Geograph. Sci.

Dissertation: "Aerosynoptic Characteristics of the Region of Dickson Island." Central
Inst. of Weather Forecasting. (May 47.)

SO: Yechernyaya Moskva, May, 1947 (Project #17836)

TAUBER, G. M.

25612 TAUBER, G. M. Plavanie V Antarktike V 1947-1948 G G.
Izvesiya Vsesoyuz Geogr. O-Vu. 1949, Vyp. 4, S. 369-85

So: Letopis' Zhurnal'nykh Statey, Vol. 34, Moshva, 1949

TAUBER, G. M. and others

Hydrometeorological observations on board of the whaling base Slava...1947
(In Russian)
Trudy Ocean. Inst., Leningrad, v. 14 (26), 1949; 19 (31), 1957
24 (36), 1954; 25 (37), 1957.

TAUBER, G. M.

Climate - Antarctic Regions

Climate in Antarctica. Geog.v shkole No. 4 1952.

Monthly List of Russian Accessions, Library of Congress October 1952 UNCLASSIFIED

TAUBER, G. M.

PA 245T90

USSR/Meteorology - Ship Observations

Nov 52

"Hydrometeorology Observations at Sea," G. M. Tauber,
Cand Geog Sci, State Oceanographic Inst, Moscow

"Meteorol i Gidrol" No 11, pp 53-56

Stresses the importance of observations obtained from
sea-going vessels. Suggests the equipping of ships
with instruments for observational purposes.

245T90

TAUBER, G. M.

Shipboard Measurements of the Temperature of Air Meteorol. i. gidrologiya,
No 2, 1953, pp 49-51

For the measurement of the temperature of air aboard ship a simple device is recommended. It consists of a thermometer in a metal case, the reservoir of which is supplied with three cone-shaped shields made of thin metal with polished and nickel-plated, or smoothly painted, surface. As shown by numerous comparisons with parallel readings of the aspiration psychrometer, the recommended device gives completely satisfactory results during sailing under various geographical and climatic conditions. (RZhGeol, No 5, 1954)

SO: Sum. No. 568, 6 Jul 55

TAUBER, G. M.

Experience in the Employment of the Electric Anemorhumbrometer (ARME-1)
Aboard Ship. Meteorol. i gidrologiya, No 4, 1953, pp 49-51

The author presents the results of an investigation of an experimental specimen of the anemorhumbrometer of the type ARME-1 during the expedition of the State Oceanographic Institute at the whaler base "Slave" in the Antarctic during 1950-1951. For control the readings averaged over 200 seconds were compared within 20 seconds according to the anemorhumbrometer with the parallel determinations according to the ordinary manual anemometer. The author presents the most essential characteristics of the operation of the device under conditions of storms, edge tossing, icing, and intense corrosion of individual parts of the device. Tests conducted in the course of 6 months indicated the reliability of operation of the device on the whole and the reliability of its electrical contact system in particular. The author recommends some improvements in the constructional design of the device for its series production. (RZhGeol, No 5, 1954)

SO: Sum. No. 568, 6 Jul 55

TAUBER, G.M.

Expeditionary work in the Antarctic in 1949/50. Trudy GOIN no.24:
5-12 '54. (MLRA 9:11)
(Antarctic regions--Scientific expeditions)

TAUBER, G. M.

"Meteorological Conditions of the Whaling Season 1949-1950 in the Regions of
Operation of the Whaler "Slava-15".
Trudy Gos. okeanogr, in-ta, No 24, pp 13-20, 1954.

The characteristics of the meteorological conditions surrounding the operating season are given according to the principal weather elements and according to individual regions. Noted is the chief peculiarity of a given season, namely small frequency of storms and prevalence of good visibility, which has been related to the weak development of cyclonic activity in the North Atlantic Ocean. The author indicates the dependence between seasonal displacement of antarctic front to the north and seasonal movement of the floating ice rim in the same direction; during the period from November to December it amounts, according to maps, to 12° - 14° along the latitude, characterizing the annual displacement.
(RZhGeol, No 7, 1955)

SO: Sum No 884, 9 Apr 1956

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120007-3

TAUBER, G. M.

Antarktika, Chast' 1. Osnovnyye cherty klimata i pogody [Antarctic. Part 1. Main features of climate and weather], 1956

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120007-3"

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120007-3

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120007-3"

TAUBER, G.M.

Main climatic features of the Antarctic. Meteor. i gidrol. no.1:
13-18 Ja '56. (MIRA 9:6)
(Antarctic regions--Climate)

TAUBER, G.^{NL}

Aerological and meteorological investigations in the Antarctic by
the First Soviet Antarctic Expedition in 1955-1957. Meteor. i gidrol
no.6:3-11. Je '57. (MIRA 10:8)

(Antarctic regions)
(Meteorology)

TAUBER, G. M.

AUTHOR: Kolobkov, N. V. 50-58-3-20/22

TITLE: The Meteorological Commission of the Moscow Branch of the Geographical Society of the USSR (Meteorologicheskaya komissiya Moskovskogo filiala Geograficheskogo Obshchestva SSSR)

PERIODICAL: Meteorologiya i Gidrologiya, 1958, Nr 3, p. 69 (USSR)

ABSTRACT: On November 16, 1957 a meeting of the Meteorological Commission of the Moscow Branch of the Geographical Society of the USSR was held at the Moscow Lomonosov State University. The meeting began with a lecture by G. H. Tauber on the subject "Peculiarities of the Meteorological Conditions of the Antarctic.". The main work of this commission is divided into the following sections: lectures and their discussion on the last scientific achievements of meteorology, informations on meteorological science in the USSR and abroad, examination of notes and papers on meteorological subjects of special interest, arrangement of guided excursions, participation in public measures, explanatory work in problems of meteorology, contributions to scientific research subjects, scientific

Card 1/2

The Meteorological Commission of the Moscow Branch of the 50-58-3-20/22
Geographical Society of the USSR

contact with meteorological societies abroad etc.

1. Meteorology--USSR

Card 2/2

TAUBER, Georgiy Mikhaylovich, doktor geograf.nauk; SEN'KO, Pavel Kononovich, kand.geograf.nauk; DOLGUSHIN, Leonid Dmitrievich, kand.geograf.nauk; MEL'NIKOVA, N.B., red.; STRELKOVA, N.A., red.izd-va; ATROSHCHENKO, L.Ye., tekhn.red.

[Soviet scientists on the sixth continent] Sovetskie uchenye na shestom kontinente. Moskva, Izd-vo "Znanie," 1959. 31 p.
(Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.9, Fizika i khimiia, no.21)

(MIRA 12:11)

(Antarctic regions)

TAUBER, G.M.

(D)

FILE 2 BOOK REFERENCES

8877565
Moscow Conference on problems meteorological Antarctic, Moscow, 1959

Proceedings (Proceeds of the Scientific Conference on Meteorological Problems in Antarctica, Moscow, 1959) Moscow, Glavnaya geofizicheskaya (Gosudarstvennoye) 1959. 47 p. 1,000 copies printed.

Name: O.G. Krivtsov Post. No.: Z.M. Zarik.

PURPOSE: The publication is intended for meteorologists, particularly for those interested in the climatology of Antarctica.

CONTENTS: This book contains summaries of thirty-nine reports presented at the Scientific Conference on Meteorological Problems in Antarctica, held in Moscow, October 26 to 28, 1959. The summaries are arranged in four groups: (1) general problem of the geography of Antarctica; (2) atmospheric circulation; (3) radiation balance; heat balance, climate and special features of individual elements; (4) methods of observation and measurement. No personalities are mentioned. There are no references.

PAGE 122. BALANCE, HEAT BALANCE, CLIMATE, AND

THE QUESTION OF INFLUENTIAL ELEMENTS

Danin, N.P. [Candidate of Geophysical Sciences, Glavnaya geofizicheskaya (Gosudarstvennoye) 1959] Nonbalance (Heat Geophysical Observatory in A.I. Vaynshteyn) Radiation Balance of the Surface of the Snow in Antarctica 20

Belov, V.P. [Candidate of Physics and Mathematics, Tomskii gosudarstvennyi universitet] Observations (Central Antarctic Observatory) Southern Hemisphere Radiation Balance in the Atmosphere, and Allocation of the Underlying Surface of the Antarctic Alpine and the Polar Sea According to the Results of Antarctic Observations from Aircrafts 21

Belov, V.P. (Heat Geophysical Observatory in A.I. Vaynshteyn) Turbulent Heat and Heat Exchange in the Air Layer Near the Ground in Antarctica 22

Bogoroditskii, V.A. [Central Forecasting Institute] Climate Zones of Eastern Antarctica 23

Bogoroditskii, V.P. [Candidate of Geophysical Sciences] and N.I. Stashovskiy (Central Forecasting Institute) Mean Monthly Fields of Air Pressure and Temperature Over Antarctica and the Southern Hemisphere 24

Dzhambashev, E.P. [Candidate of Geophysical Sciences, Tomskii gosudarstvennyi universitet] Geophysical Institute for the Investigation of the Antarctic Low-Pressure Zone and the Belt of Convection Between the Antarctic Subtropical Fronts 25

Ozur, J.H. [Institute of Applied Geophysics, USGS] Physical Causes of One Cylindrical Feature in the Interior Regions of Antarctica 26

Zolotarev, G.N. [State Geophysical Institute] Characteristics of Depressions in Antarctica 27

Beloglazov, I.M. [Candidate of Geophysical Sciences, Antarctic Institute] Geographically Anomalous Isolations (Scientific Research Institute on Arctic and Antarctic) Special Features of the Belts of Belts in Antarctica in Relation to Weather Characteristics 28

Lobodin, T.V. [Glavnaya geofizicheskaya observatoriya in A.I. Vaynshteyn] Investigation of the Electric Field 29

Egorov, S.D. [Candidate of Geophysical Sciences, Glavnaya geofizicheskaya (Gosudarstvennoye) 1959] A.I. Vaynshteyn (Heat Geophysical Observatory in A.I. Vaynshteyn) Conditions for the Formation of the Snow Cover in Antarctica 30

Page 6/9

Tauben, G.M.

3(3) PHASE I BOOK EXPLOITATION

SOW/3223

Akademija nauk SSSR. Kooperativnyj antarkticheskaya ekspeditsiya
Klimat Antarktiki (Climate of the Antarctic) Moscow, Georgijev,
1959; 285 p. (Series: Issled. Trudy Meteorologija i Klimato-
logija) Private slip inserted. 4,000 copies printed.
M.-I. S. M. Rumak, Tech. Ed.; S. M. Kosheleva, Editorial Board;
V. P. Burhanov, S. L. Dzerdyrevsky, N. P. Pogoreyan, and G. M.
Tubor.

PURPOSE: This book is intended for meteorologists and other scientists concerned with the Antarctic region.

CONTENTS: This book contains 18 articles on the weather and climate of Antarctica. Articles represent the generalized results of previous data obtained by the Soviets during their expeditions to the Antarctic, 1955-1956. Individual authors have attempted to clarify and unify previously divergent views on Antarctic meteorological processes (zonal circulation, temperature distributions, cyclonic and anticyclonic movement, etc.). No personalities are mentioned. References accompany individual articles.

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TAVBER, G.M.

13

PAGE 2 BOOK REFERENCE

800/500

Moscow Conference on problems meteorology Antarctica, Moscow, 1959
 Surveyor's laboratory (theses of reports at the Scientific Conference on Meteorological Problems in Antarctica Moscow, 1959) Moscow, Glavnogeofizicheskii (Obdopolje) 1959, - 37 p. 1,000 copies printed.

Ed.: O.G. Krushak, Tech. Ed.: I.M. Zaitsev.

Purpose: The publication is intended for meteorologists, particularly for those interested in the climatology of Antarctica.

Contents: This issue contains a collection of thirty-five papers presented at the Scientific Conference on Meteorological Problems in Antarctica, held in Moscow, October 26 to 30, 1959. The authors are concerned in four groups: (1) general problems of the geography of Antarctica; (2) atmospheric circulation; (3) radiation balance, heat balance, climate and special features of individual elements; (4) methods of observation and measurement. No personalities are mentioned.

TABLE I. GENERAL GEOGRAPHICAL FEATURES

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 Lomakin, N.S. [Candidate of Geodesy, Institute of Geodesy, University of the Northern Sea Route] 2
 Kostylev, V.M. [Candidate of Geodesy, Institute of Geodesy, University of the Northern Sea Route] 3
 Krushak, O.M. [Doctor of Geographical Sciences, Institute of Geodesy and Mathematics, USSR (Central Forecasting Institute)] and A.V. Budilov [Candidate of Geodesy and Mathematics, Institute of the Northern Sea Route] 4
 Slobodchikov, V.P. [Doctor of Geodesy, Institute of Geodesy and Mathematics, University of the Northern Sea Route] 5

TABLE II. ATMOSPHERIC CIRCULATION

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Golosov, N.S. [Candidate of Geophysical Sciences, General'nye geologicheskiye issledovaniya (Central Aerological Observatory)] Some Special Features of Circulation and Structure of the Atmosphere in Antarctica and the Central Arctic 10
 Pavlenko, Yu.I. [Main Administration of the Northern Sea Route] Air Pressure in the East Antarctica 11
 Abramenco, F.D. [Doctor, Candidate of Geophysical Sciences, Geometrical Institute, Surveyor's laboratory (Central Forecasting Institute)] Atmospheric Circulation in Development of Synoptic Processes Over Northern Antarctica 12
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SOMOV, M.M., doktor geograf.nauk, red.; TAUBER, G.M., doktor geograf., nauk, red.; DOLGIN, I.M., kand.geograf.nauk, red.; ZVEREV, A.A., kand.geograf.nauk, red.; DROZHZHINA, L.P., tekhn.red.

[Materials of the Soviet Complex Antarctic Expedition] Materialy Sovetskoi kompleksnoi antarkticheskoi ekspeditsii. Leningrad, Izd-vo "Morskoi transport." Vol.2. [First Continental Expedition, 1955-1957; scientific results] Pervaya kontinental'naia ekspeditsiya, 1955-1957 gg.; nauchnye rezul'taty. Pod red. M.M.Somova. 1959. 161 p. Vol.3. [First Continental Expedition, 1955-1957; observation data] Pervaya kontinental'naia ekspeditsiya, 1955-1957 gg.; materialy nabliudeni. Pod red. G.M.Taubera. 1959. 459 p. Vol.4. [First Continental Expedition, 1955-1957; observation data] Pervaya kontinental'naia ekspeditsiya, 1955-1957 gg.; materialy nabliudeni. Pod red. G.M.Tauber, I.M.Dolgina. 1959. 482 p. Vol.6. [Second Marine Expedition in the diesel-electric ship "Ob'", 1956-1957; observation data] Vtoraia morskaya ekspeditsiya na d/e "Ob'", 1956-1957 gg.; materialy nabliudeni. Pod red. A.A.Zvereva. 1959. 386 p.

(MIRA 13:3)

1. Sovetskaya kompleksnaya antarkticheskaya ekspeditsiya, 1955-1958.
(Antarctic regions--Russian exploration)

Nettel, C. (C)

PHASE I BOOK EXPLOITATION

SOV/4339

Sovetskaya antarkticheskaya ekspeditsiya, 1955-

Pervaya kontinental'naya ekspeditsiya 1955-1957 gg.; nauchnyye rezul'taty (First Continental Expedition, 1955-1957; Scientific Results) Leningrad, Izd-vo "Morskoy transport," 1959. 161 p. 2,000 copies printed. (Series: It's Materialy, tom 2)

Sponsoring Agency: Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

Ed.: M.M. Somov, Doctor of Geographical Sciences; Tech. Ed.: L.P. Drozhzhina.

PURPOSE: This book is intended for polar specialists, geographers, geologists, meteorologists, and geophysicists.

COVERAGE: This book is Volume 2 of a multivolume work containing scientific data collected by the First Soviet Continental Expedition to the Antarctic (1955-57), sent out under the auspices of the Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut (Arctic and Antarctic Scientific Research Institute) as part of the IGY program. The purpose of the expedition was to survey an area between 74 to 111°E longitude and 59 to 70°S latitude (an area of about 1

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First Continental Expedition (Cont.)

SOV/4339

million square kilometers), to develop methods and techniques for field studies applicable to local conditions, and to initiate a systematic study of the natural phenomena of the region. Ground and aerial observations were conducted in the more interesting areas around and between Mirnyy and Pionerskaya, in the three oases of Grierson, Bunger, and Vestfold, on the Shackleton Ice Shelf, Drygalski Island, and a number of nunataks (Amundsen, Gauss, etc.). Geological, geographic, and geophysical observations were made at the Mirnyy Observatory and at the Pionerskaya and Oazis research stations. No personalities are mentioned. There are no references.

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AVAILABLE: Library of Congress (G860.S58)	

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JA/dwm/sfm
11-21-60

BURKHANOV, V.F., red.; DZERDZEYEVSKIY, B.L., red.; POGOSYAN, Kh.P.,
red.; ~~TAUBER, G.M.~~, red.; KUMKES, S.N., red.; MAL'CHEVSKIY,
G.N., red.kart; KOSHELEVA, S.M., tekhn.red.

[The climate of Antarctica] Klimat Antarktiki. Moskva, Gos.
izd-vo geogr.lit-ry, 1959. 285 p. (MIRA 12:11)

1. Akademiya nauk SSSR. Kompleksnaya antarkticheskaya ekspe-
ditsiya, 1955-.
(Antarctic regions--Climate)

TAUBER, G. M.

PHASE I BOOK EXPLOITATION SOV/4341

Sovetskaya antarkticheskaya ekspeditsiya

Pervaya kontinental'naya ekspeditsiya 1955-1957 gg.: materialy
nablyudeniy (First Continental Expedition, 1955-1957;
Materials From Observations) Leningrad, Izd-vo Morskoy
transport, 1959. 482 p. Errata slip inserted. 800
copies printed. (Series: Its: Materialy, tom. 4)

Sponsoring Agency: Arkticheskiy i antarkticheskiy nauchno-
issledovatel'skiy institut.

Eds.: G. M. Tauber, Doctor of Geography, and I. M. Dolgin,
Candidate of Geography; Tech. Ed.: L. P. Drozhzhina.

PURPOSE: This book is intended for meteorologists and geo-
physicists.

COVERAGE: This volume, representing the fourth in a series
containing data collected during the First Soviet Con-
tinental Expedition to the Antarctic (1955-57), is a com-
pilation of aerological observations. The observations

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First Continental Expedition (Cont.)

SOV/4341

were made by radiosonde, pilot balloon, and radio pilot from the observatory at Mirnyy, the research station at Pionerskaya, the research ships "Lena" and "Kooperatsiya", Temporary Station no. 4, and during a tractor-drawn sled expedition. The data shown in the tables were computed by the method of mean algebraic values. Mean values for temperature, pressure and wind velocity, and extreme values for temperature were computed on the basis of not less than a series of five observations, and wind direction recurrence by not less than ten observations. The mean values are shown together with the number of observations made during each month. The aerological data was processed and prepared for publication at the Tsentral'naya aero-logicheskaya observatoriya (Central Aerological Observatory) by R. A. Belogurova, N. A. Yefimova, Ya. M. Korpich, M. M. Kolomiytseva, R. A. Zagudayeva, G. A. Karpova, D. A. Ustinovich, A. M. Komarova, K. Ya. Nikishova, and Candidate of Geographic Sciences D. A. Murav'yeva. Data was processed under the general direction of Candidate of Geographic Sciences M. A. Zolotarev. A critical analysis of the observations was made by T. A. Tsitovich. The

Card 2/4

First Continental Expedition (Cont.)

SOY/4341

aeroclimatic processing of data gathered at Mirnyy was performed at the Division of Climate of the Arctic and Antarctic Scientific Research Institute, by Junior Scientific Worker L. P. Nikandrov, Engineer A. N. Vorob'yev, and Senior Technician V. A. Kharitonov, under the supervision of Junior Scientific Worker S. I. Sokolov. No references are given.

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AVAILABLE: Library of Congress (Q860.S58)

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JA/dwm/ec
10-31-60

SOMOV, M.M., otv. red.; MAKSIMOV, I.V., zamestitel' otv.red.; TRESHNIKOV, A.F., zamestitel' otv.red.; ANDRIYASHEV, A.P., red.; BUYNITSKIY, V.Kh., red.; VORONOV, P.S., red.; DOLGIN, I.M., red.; KALESNIK, S.V., red.; KOROTKEVICH, Ye.S., red.; NIKOL'SKIY, A.P., red.; RAVICH, M.G., red.; TUUBER, G.M., red.; FROLOV, V.V., red.; SLEVICH, S.B., red.; KAPLINSKAYA, L.G., red.izd-va; BROZHINA, L.P., tekhn.red.

[Report on observations completed by the Soviet Antarctic Expedition in 1957 and 1958] Otchet o nablyudeniiakh, vypolnennykh Sovetskoi antarkticheskoi ekspeditsiei v 1957 i 1958 gg. Sovetsknaia antarkticheskaiia ekspeditsiia, 1955-1958. Leningrad, Izd-vo "Morskoi transport," 1960. 39 p (Informatsionnyi biuletin', no.15) (MIRA 13:6)

(Antarctic regions--Russian exploration)

S/169/63/000/003/028/042
D263/D307

AUTHOR: Tauber, G.M.

TITLE: On the problem of seasonal variations of circulation
in the troposphere and the lower stratosphere over
Antarctica

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 3, 1963, 39,
abstract 50228 (In collection: Materialy konferentsii
po itogam MGG (1960) i meteorol. izuch. Intarktidy
(1959), N., Gidrometeoizdat 1963, 55-56).

TEXT: From a preliminary analysis of IGY data the author
concludes that the Antarctic anticyclone is a high formation, the
origin of which is connected with thermal and dynamic factors. The
prevailing circulation in the lower and middle troposphere is deter-
mined by this anticyclone. In the upper troposphere and lower stra-
tosphere in the winter predominates cyclonic circulation, while anti-
cyclonic circulation is dominant in the summer. Seasonal changes
of circulation are connected with changes in the thermal state of

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S/169/63/000/003/028/042
D263/D307

On the problem of seasonal ...

Antarctica (formation of a warm region at a high altitude in the summer owing to absorption of solar radiation by ozone, and additional cooling of the stratosphere in the winter). Processes over Central Antarctica possess an analogous character.

[Abstracter's note: Complete translation]

Card 2/2

3,5000

S/634/62/000/057/001/001
I053/I253

AUTHOR: Tauber, G. M.

TITLE: Some characteristics of atmospheric circulation in the northern and southern hemispheres

SOURCE: Moscow. Gosudarstvennyy okeanograficheskiy institut. Trudy. no. 67, Moscow, 1962,
33-60

TEXT: The characteristics of the general circulation of the atmosphere of the earth's globe as well as the main differences produced by the physicogeographical conditions in the circulatory conditions in the two hemispheres, were analysed and compared. Available data concerning the zonal distribution of cyclones and anticyclones, their repeatable character and intensity, is discussed. Special attention was paid to circulation indices of atmospheric circulation in the zone included between the lines of 30 and 70 degrees of both hemispheres, based on observations made during the year 1958, when reported anomalies in the atmospheric circulation occurred compared with other years' standards. There are 8 figures and 6 tables.

English language references are:

31. Fucker G. B. Mean meridional circulation in the atmosphere. Quartly Met. Soc., vol. 86, no. 368, 1960.
32. Gibbs, W. A., Comparison of hemispheric circulations with particular reference to the Western Pacific. Quart. J. Meteorol. Soc., 79, no. 339, 1953.

Card 1/2

Some characteristics...

S/634/62/000/067/001/001

I053/I253

1/2

33. Pettersen, S., Some aspects of the general circulation of the atmosphere. Centenary Proc. Roy. Meteorol. Soc. London, 1950.
34. Rubin, M. J. and Van-Loon, H., Aspects of circulation of the Southern Hemisphere. J. Meteorol. 11, no. 1., 1954.

Card 2/2

SORKINA, Anna Il'ichna; TAUBER, G.M., otv. red.; MINENKO, V.M., red.;
ZARKH, I.N., tekhn. red.

[Types of atmospheric circulation and associated wind fields
over the northern part of the Pacific Ocean] Tipy atmosfernoi
tsirkulatsii i sviazannykh s nej vetrovykh polei nad severnoi
chast'iu Tikhogo okeana. Moskva, Gidrometeorologicheskij otdel (Gidrometresdat)
(otd-nie), (MIRA 16:6)
1963. 247 p.
(Pacific Ocean--Winds)

GAYGEROV, Semen Semenovich; TAUBER, G.M., otv. red.; ROSHCHINA,
V.V., red.

[Aerology of the polar regions] Aerologiya poliaromykh rajo-
nov. Moskva, Gidrometeoizdat, 1964. 303 p. (MIRA 17:10)

L 05342-67 EWT(1) GW

ACC NR: AT7000234

SOURCE CODE:

UR/3174/66/000/057/0060/0064

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AUTHOR: Tauber, G. M. (Doctor of geographical sciences)

B+1

ORG: State Oceanographic Institute (Gosudarstvennyy okeanograficheskiy institut)

TITLE: Atmospheric circulation in Antarctica (concise review of present status of the problem)

SOURCE: Sovetskaya antarkticheskaya ekspeditsiya, 1955-. Informatsionnyy byulleten', no. 57, 1966, 60-64

TOPIC TAGS: atmospheric circulation, antarctic climate

ABSTRACT: The findings of ten years of meteorological research in Antarctica are summarized. It has been found that there is a close interrelationship between synoptic processes in the high and low latitudes of the Southern Hemisphere, and a unity of atmospheric circulation in the entire hemisphere. Thus, the idea that there was an autonomous circulation in Antarctica and that Antarctica is isolated, common ten years ago, is completely refuted. In addition, it now is clear that there is air exchange between the hemispheres, although the mechanism of this circulation still has not been studied. The article defines the special problems which require continuing investigation: 1) Circulation of the atmosphere in the Southern Hemisphere and its interrelationship to circulation in the Northern Hemisphere; 2) In-

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ACC NR: AT7000234

terrelationship of atmospheric processes in the high and middle latitudes of the Southern Hemisphere; 3) Principal patterns of formation of large-scale blocking processes in Antarctica; 4) Stratospheric warmings in Antarctica; 5) Interrelationship between tropospheric and stratospheric processes; 6) Anticyclogenesis over Antarctica. Mechanism of formation of the polar anticyclone, its vertical structure and characteristics of the regime; 7) Cyclonic activity over the Antarctic continent. Principal paths of cyclones, their frequency and evolution; 8) Antarctic fronts; 9) Cyclogenesis on the Antarctic front; 10) Cyclogenesis on individual parts of the polar front, principal paths and rates of movement of cyclones in dependence on the development of macroprocesses in the hemisphere and regeneration of polar front cyclones in Antarctica. [JPRS: 37,058]

SUB CODE: 04 / SUBM DATE: 08Jun65 / ORIG REF: 021

kh

Card 2/2

Measurements of Isotherms of specific wetting. A. B. Taulman, *J. Phys. Chem. (U. S. S. R.)* I, M2 71 (1931).—A study of the effect of saponin solns. of various concns. on the wetting of paraffin by water and the rate of change of surface tension on the boundary: saponin soln.—air. In measuring the angle of contact on the laundry saponin—a change from an obtuse to an acute angle as a result of the adsorption of saponin on the interface is observed. Beginning with a concn. of saponin of 0.01% paraffin is wet by a water soln. It was assumed that the Rebinder equation for the kinetics of adsorption was applicable. (Cf. Rebinder, *J. Russ. Phys.-Chem. Soc.* 30, 600 (1912).) (I. Farcman)

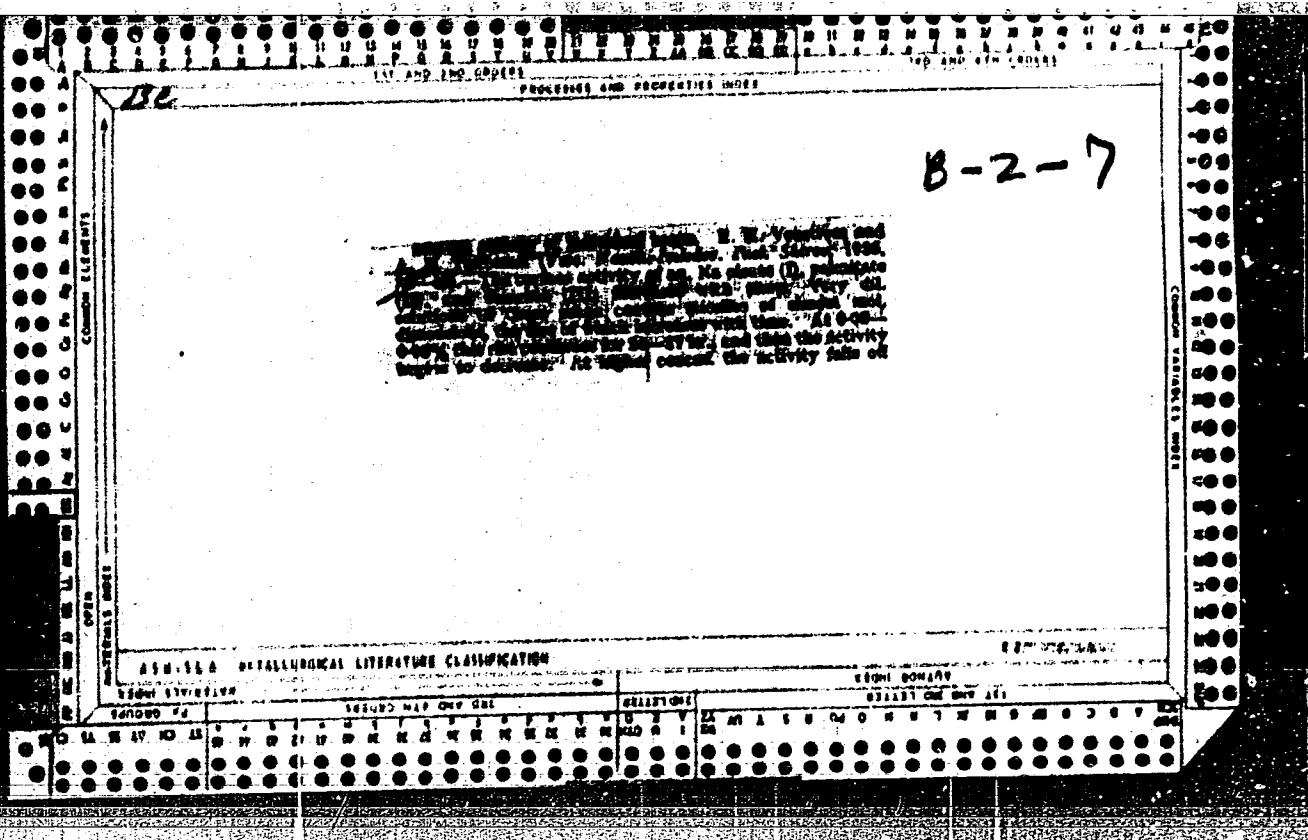
A3B-31A METALLURGICAL LITERATURE CLASSIFICATION

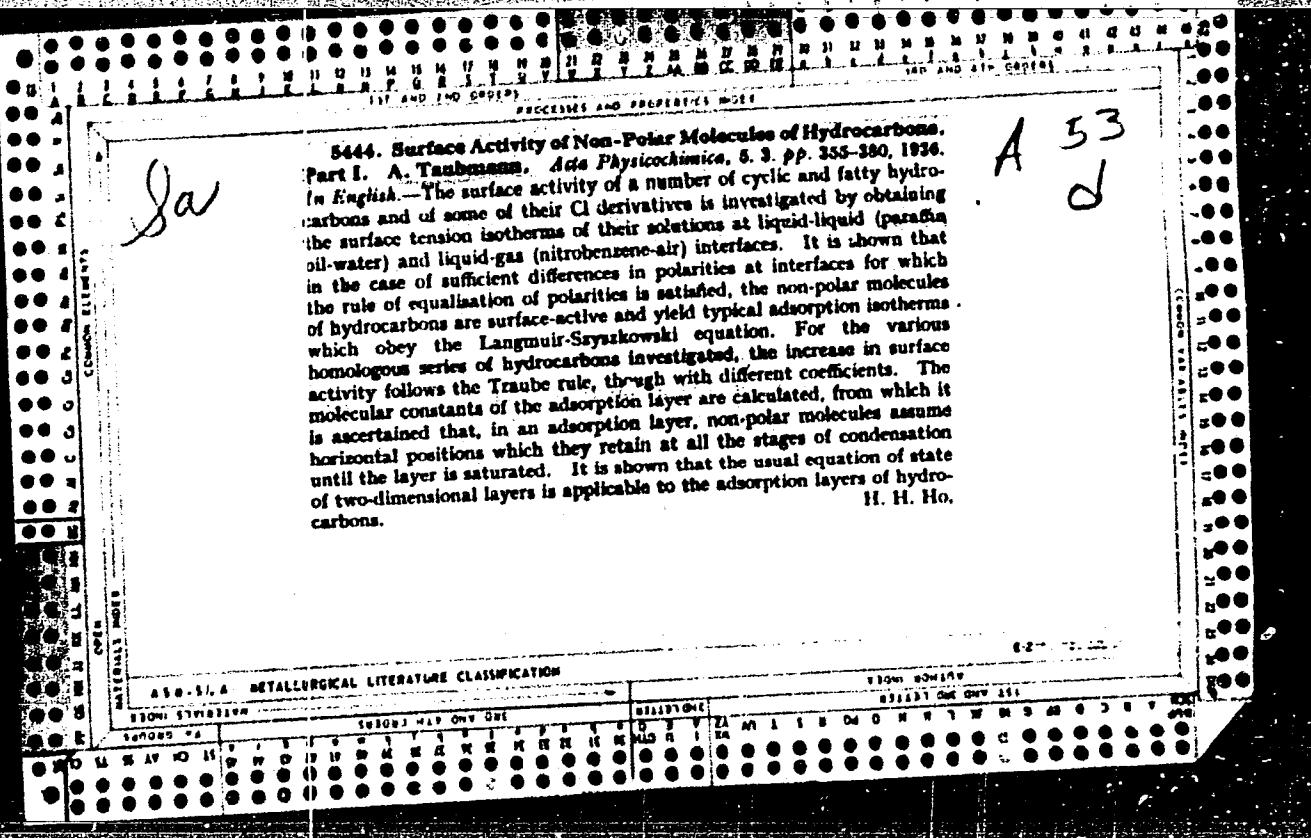
APPROVED FOR RELEASE: 07/16/2001

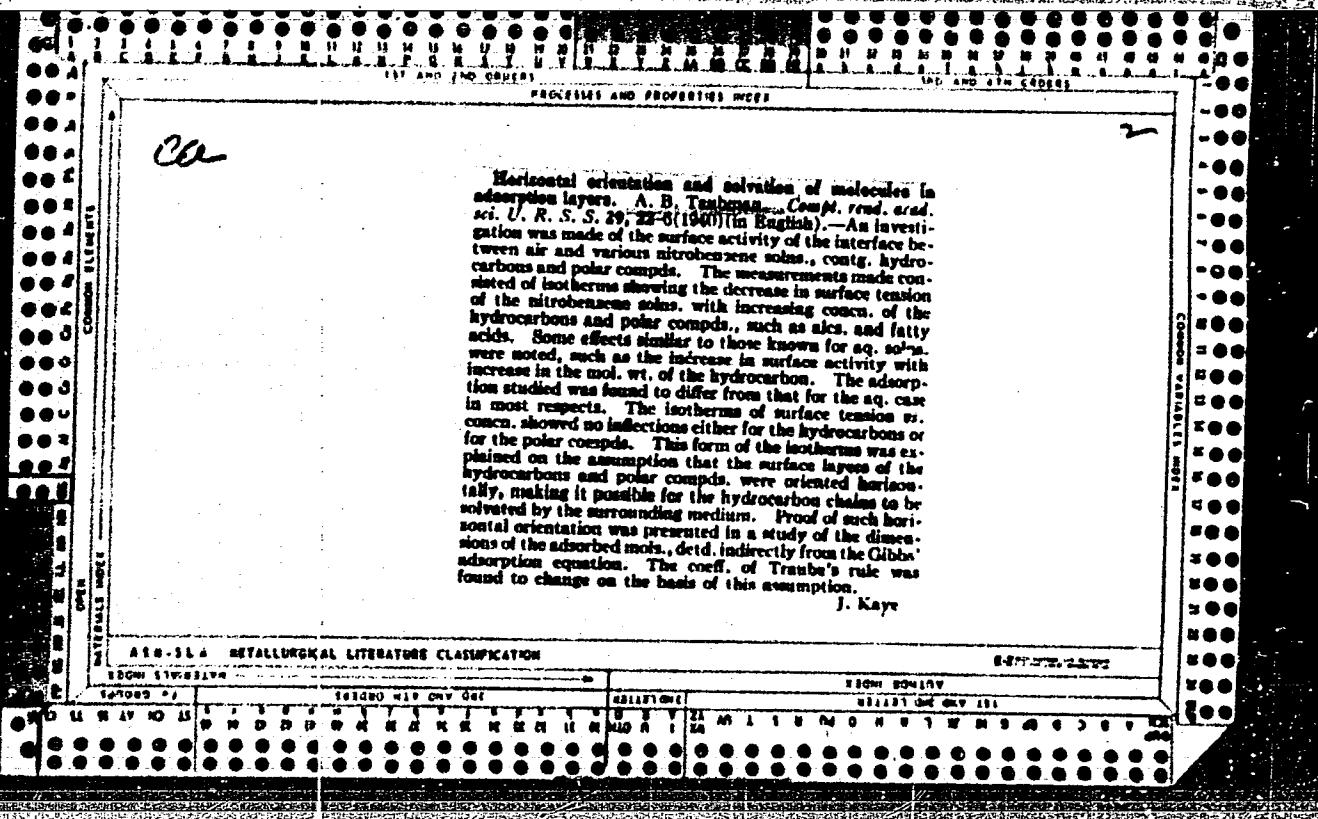
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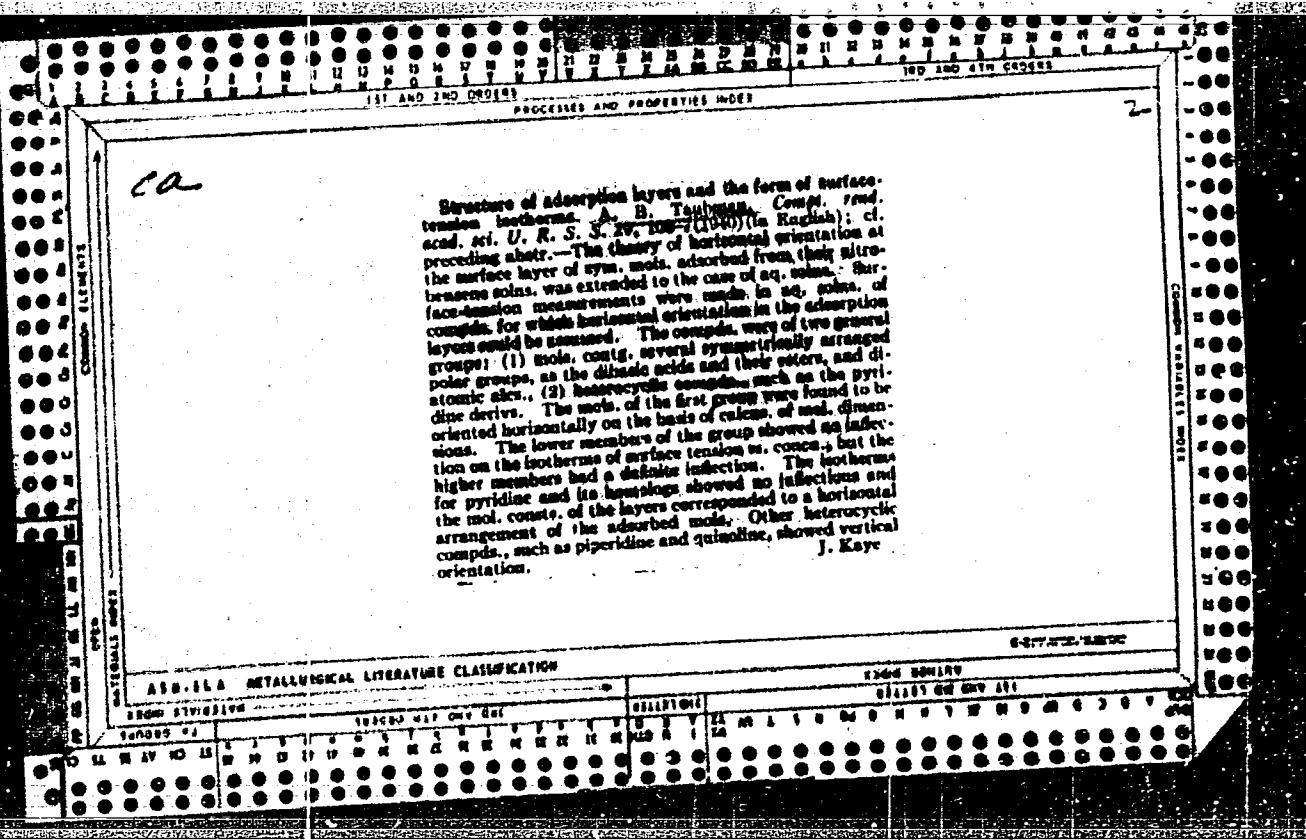
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COPPER ELEMENTS	COPPER	COPPER		COPPER	
ASB-11A METALLURGICAL LITERATURE CLASSIFICATION		FROM AUTHORSHIP		VOLUME NUMBER	
		NAME OF AUTHOR		NAME OF PUBLISHER	
140200 92		VOLUME NUMBER		1900-1949	
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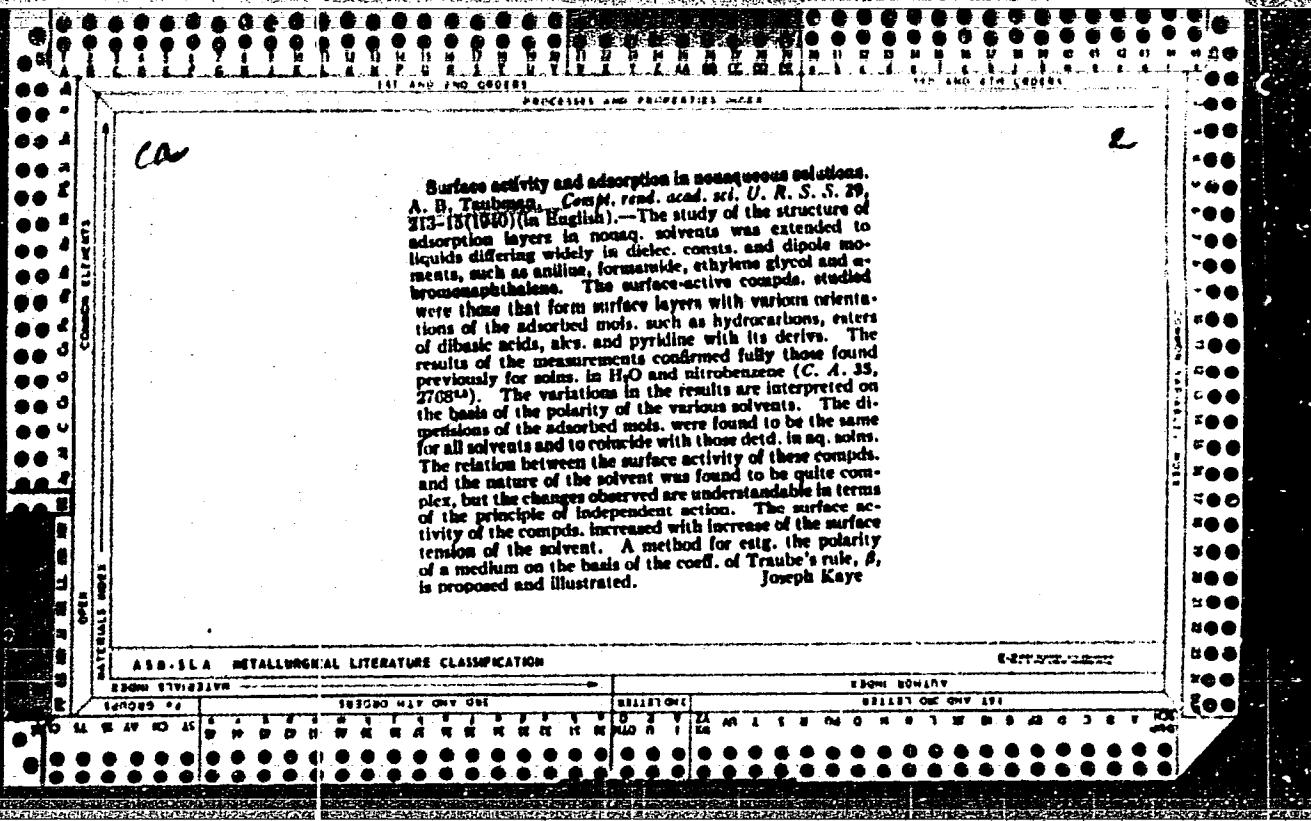
Ca

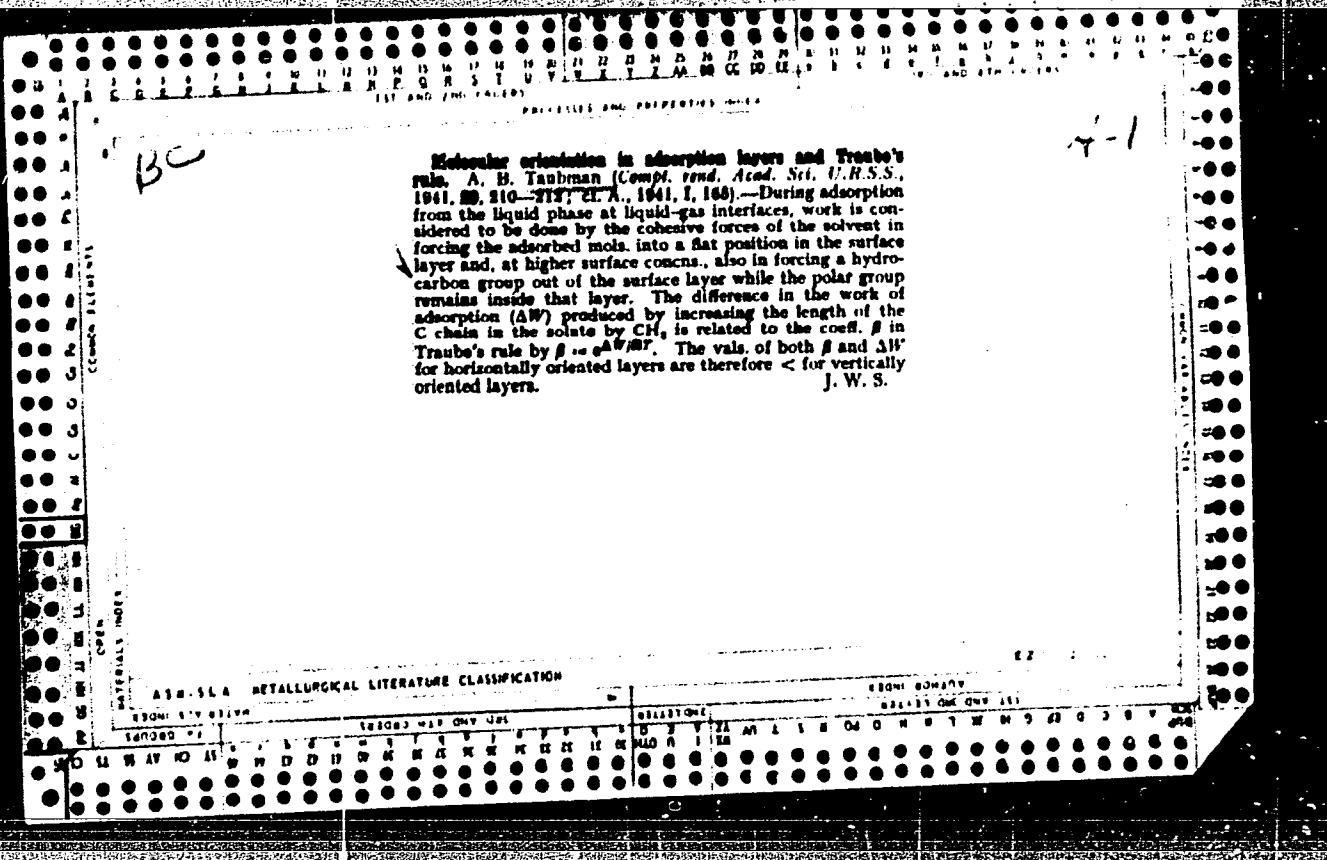
Molecular orientation in adsorption layers and Traube's rule. A. B. Taubman. *Compt. rend. acad. sci. U. R. S. S.* 29, 810-12 (1949) (in English).--The theory of horizontal orientation of adsorbed molecules is extended to compounds with quite varied组成. The theory is applied, in connection with the value of the coeff. β in Traube's rule, to gaseous layers at the interface. The work of forming a horizontally oriented layer is expressed in terms of β for a polar compd. with a hydrocarbon group. It is concluded that the type of mol. orientation in the adsorption layers, with regard to the structure of the surface-active compounds, differs not only in solid, but also in gaseous layers. For sym. mols., oriented horizontally, the arrangement of hydrocarbon chains, submerged in the surface layer of the solvent, is retained throughout the entire concen. interval. However, the chains of asym. mols. which form vertically oriented condensed layers lie on the interface for the sake of gaseous layers and not inside the phase. J. K.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

6-677 51-5100

SEARCHED	SEARCHED AND INDEXED	COLLECTED	FILED	SEARCHED		SEARCHED		SEARCHED	
				SEARCHED	INDEXED	FILED	SEARCHED	INDEXED	FILED
10	11	12	13	14	15	16	17	18	19





CA

2

Structure of surface layers of aqueous solutions. A. B. Taubman, Dobledy Akad. Nauk S.S.R. 71, 343 (1957). Crit. analysis and recalc. of the available literature data with the aid of the rigorous Gibbs adsorption equation resolved the existing contradictions and led to the following set of values of the min. surface area S (in sq. Å.) occupied by a mol. in the surface film: aliphatic acids ($n\text{-C}_n$ to C_{10}) 31.0-30.2; lauroic acid 30.0; aliphatic ales. ($n\text{-C}_n$, C_nC_m) 28.9-27.4; iso-AmOH 29.0; BuNH₂ 29.0; AcOBt 30.6; AcOPr 31.0; PhCH₃OH 28.1; PhOH 28.0; β -MeC₁₁OH 28.6; PhNH₂ 27.6; In condensed monolayers, aliphatic acids 20.6; aliphatic ales. 21.6; aliphatic amines 20.8; esters 22.3; ρ -deriva. of C₆H₅CO₂ 24.0. These data are summarized by the set: 29.8, ales. 28.4, amines 27.9. The values of S in different homologous series are thus very close, and markedly higher than either the effective cross sections of the mols. or the mol. packing d. in condensed monolayers of the initial higher homologs. Strikingly, S values of esters are practically identical with the S of the corresponding acids, despite the considerable increase of the size of the polar groups. The leveling factor which annuls the effect of the polar group is evidently hydration, in other words, the solvent takes part in the structure of the adsorbed layer. This does not occur in a nonaq. soln.; hence, for BuOH and C₆H₅OH in CH₂Cl₂ and in PhNH₂, $S = 22-23$ sq. Å., as against 28 in H₂O. Similarly, for the lower fatty acids adsorbed from vapor on Hg, $S = 22$ instead of 30.6. The hydrating H₂O is evidently hydrogen-bonded with the polar group of the org. compd.; this results in a uniform S of 28-31 sq. Å., irrespective of the nature of the polar group.

C.R.

2

Absorption from aqueous solutions of surface-active substances. A. B. Tsvetan (Phys. Chem. Inst., Acad. Sci. U.S.S.R., Moscow). *Doklady Akad. Nauk S.S.R.* 74, 821-4 (1950).—The adsorption of *p*-MeC₁₂H₉NH₂ (I) at the interface aq. soln./vapor, detd. by surface-tension measurements, is in no range increased by C₁₂H₂₅N (II) in the same soln.; increasing amt. of II only decrease the adsorption of I, without altering its S-shaped curve. The only observed effect in the binary I-II soln. is displacement. In contrast thereto, in the system I-PtNH₂ (III), the adsorption curve of I at low concns. lies below and intersects the curves of adsorption of I in the presence of III in the same soln. The concn. of I corresponding to the point of intersection is higher the lower the amt. of III. The S-shaped bend of the adsorption curves of I is gradually attenuated as the amt. of III increases and disappears altogether at sufficiently high III. In mixed aq. soln. of stearic acid and CO(NH₂)₂, adsorption of one component (at the interface aq. soln./hydrocarbon) is always enhanced by the presence of the other component, i.e. the adsorption curves of the mixed solns. lie above the curve of the pure component, without intersection. Only in this case can the interaction be ascribed to polar groups. In the case of the system I-III the effect is not due to an interaction between the 2 components, but to diln. of mols. of one component by the mols. of the other in the adsorbed layer. N. Thon

64
Molecular interactions in adsorption layers. A. B. Taubman (Acad. Sci. U.S.S.R., Moscow). Doklady Akad. Nauk S.S.R., 74, 719-81 (1950); cf. C.A., 44, 6153x.— Isotherms of the surface tension σ at the interface between a soln. of a water-insol. surface-active substance (ethyl alk. lauric acid, stearic acid) in C_6H_6 and H_2O , plotted against the concn. c of the surface-active substance, are different from the usual $\sigma(c)$ curves for the interface of an aq. soln. and vapor; in particular, they fail to show the initial S-shaped bend which is characteristic of the water-sol. members of all homologous series from about C_6 upwards. That different shape of the σ isotherms is evidently due to an interaction between the nonpolar ends of the solute molcs. and the hydrocarbon solvent, which results in a weakening of the mutual attraction between the solute molcs. In terms of the Schofield and Rideal equation of state, $\Delta\sigma(S - S_{\text{sat}}) = RT$, the change of the shape of the σ isotherm is linked with the value of x , expressing the lateral attraction force between the solute molcs. in the surface layer; x falls with increasing chain length, from 0.88 for

AcOH to 0.23 for lauric acid. Accordingly, for the interface lauric acid in aq. soln./vapor, the $\sigma(c)$ curve has the typical S-shape. In contrast thereto, the same curve for stearic acid in C_6H_6/H_2O corresponds to $x = 0.95$, i.e., is practically the same as for the lowest members of the homologous series. Consequently, molcs. of the water-insol. higher homologs adsorbed at the interface org. soln./ H_2O , are in the gaseous state. The min. surface area S_{min} occupied by an oriented stearic acid mol. at the interface org. soln./ H_2O , 30.7 sq. Å, is the same as for the water-sol. lower and medium fatty acids, and different from the surface area, 20.5 sq. Å., of a mol. in a condensed monolayer. This expansion of the surface layer, which brings it close to the gaseous state, is the result of the solvation of the stearic acid. The product of the surface-area expansion, $\Delta Y \sim 10$ sq. Å./mol., by the surface pressure of the natnl. surface layer, ~ 25 dyne, gives for the free energy of formation of the "surface soln." ~ 360 cal./mole. The closeness of the $\sigma(c)$ isotherms of lauric and of stearic acid indicates that, with identical polar groups, the length of the chain has no significant effect on the work of adsorption.
N. Thom

2

YAKHNIN, Ye.D.; TAUEMAN, A.B.

Structure formation in disperse systems. Dokl. AN SSSR 155
no.1;179-182 Mr '64. (MIRA 17:4)

1. Institut fizicheskoy khimii AN SSSR. Predstavлено akademikom
F.A.Rebinderom.

TAUBMAN, A.B.

LAPATUKHIN, V.S.; TAUBMAN, A.B., doktor khimicheskikh nauk, redaktor.

[Physical and chemical principles of offset form processes. Making materials for blanks] Fiziko-khimicheskie osnovy ofsetnykh formnykh protsessov; obrazovanie probel'nykh elementov. Pod red. A.B.Taubmana. Moskva, Iskusstvo, 1952. 171 p. (MLRA 7:6)

(Offset printing)

Fatty acids, A
The structure of acids can be described by the equation:

$S = 30.5 + 0.00125M - 0.000125M^2$

where S is the value of S according to the above equation. The mean values of S are for aliphatic acids 30.5, aliphatic and aromatic alcohols 33.5, aliphatic amides 30.0, aromatic acids 30.0, and aromatic amides 33.0, etc. They are greater than the values in Table I.

Ca and Ba soaps. The values of S for the Ca and Ba soaps of fatty acids are the same as for the acids themselves. This does not affect the packing of soap molecules in the absence of hydration, e.g., on Fig. the S values are identical. The difference in S of fatty acids and their Ca and Ba soaps is due to the absence of hydration of the latter. J. J. Bikerman
73 references.

SCHWARTZ, Anthony M.; PERRY, James W.; TAUBMAN, A.B., doktor khimicheskikh nauk, redaktor.

[Surface active agents; their chemistry and technology] Poverkhnostnoaktivnye veshchestva; ikh khimiia i tekhnicheskie primenenia. Moskva, Izd-vo inostrannoi lit-ry, 1953. 544 p. (MLRA 7:2)
(Surface active agents)

TAUBMAN, A., doktor khimicheskikh nauk; KORETSKIY, A., inzhener.

Emulsion method of cleaning petroleum product residues from petroleum tankers.
Mor. i rech. flot 13 no. 1:5-7 My '53.

(MLR 6:10)

(Tank vessels)

TAUBMAN, A.B.

USSR/Miscellaneous

Card 1/1 : Pub. 124 - 11/24

Authors : Tautman, A. B., Dr. of Chem. Sc.; and Koretskiy, A. F.

Title : New method of scavenging petroleum tankers

Periodical : Vest. AN SSSR 9, 62-64, Sep 1954

Abstract : A new emulsion method of scavenging sea-going and river tankers, developed by specialists of the Sea and River Fleet of the USSR, is described. The basic operation consists in liquifying the thick viscous petroleum residue on bottom of the tanker and removal by a standard pump.

Institution : ...

Submitted : ...

TAUBMAN, A.B., doktor khimicheskikh nauk; NIKITINA, S.A.

Physical and chemical investigation of wetting agents used in
dust catching. Bor'ba s sil. 2:61-70 '55. (MIRA 9:5)

1. Institut fizicheskoy khimii Akademii nauk SSSR.
(DUST--PREVENTION) (WETTING AGENTS)

TAUBMAN, A.B.

"Introduction to the theory of flotation." V.I.Klassen, V.A.Mokrousov. Reviewed by A.B.Taubman. Koll.zhur.17 no.1:78-79 Ja-F '55. (Flotation)(Klassen, V.I.)(Mokrousov, V.A.) (MIRA 8:3)

SOV/124-58-11-13560

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 226 (USSR)

AUTHORS: Taubman, A. B., Venstrem, Ye. K.

TITLE: The Laws Governing the Effect of Surface-active Substances on the Creep of Metallic Single Crystals (Zakonomernosti vliyaniya poverhnostno-aktivnykh veshchestv na polzuchest' metallicheskikh monokristallov)

PERIODICAL: V sb.: Tr. 3-y Vses. konferentsii po kolloid. khimii. 1953 g.
Moscow, AN SSSR, 1956, pp 52-64

ABSTRACT: A clarification of the general laws governing the effect of surface-active substances on the deformation of metals in terms of the molecular properties and the chemical composition of the substances. Constant-load tests were performed on 0.5-1.0 mm diam single-crystal wire specimens made of tin and lead. The external medium consisted of solvents, such as octane, benzol, and water, and solutions therein of surface-active substances. In this investigation no application was made of measures for the complete removal of the oxide films, since the effect of the facilitation of deformations becomes apparent in the presence, as well as in the absence, of

Card 1/2

SOV/124-58-11-13560

The Laws Governing the Effect of Surface-active Substances on the Creep (cont.)

such films. It was shown that the effect of the facilitation of deformations in metals attributable to surface-active substances essentially obeys the standard laws of adsorption which characterize the adsorption of such substances on liquid interfaces.

A. I. Yatsyuk

Card 2/2

Effect of physicochemical factors in the interaction of dust particles with drops of solutions of surfactants. A. H. Tantawy and S. A. Moustafa. *Dustless Abs. Inst.* No. 2, No. 118, 639-2 (1950). The dust-collecting ability of water and surfactant saline was evaluated in a special apparatus by determining the turbidity of dust suspensions resulting after stirring the suspended dust particles with a suspension containing 60% of the dust-dust mass. Quartz dust, up to 30 μ , and next red ochre dust, up to 6 μ in size, were treated with atomized water droplets containg polyethylene glycols of alkyl phenols, Aerosol OT, technical grade of sodium isobutyl, 6.01% CaCl_2 soln., and alkylarylsulfonates. The results appear to indicate that the imperfect contact of the dust particles with water is not due to the size leaving around the water droplets but to the difficulties of wetting the solid surfaces and to the dynamic conditions during the brief contact of dust with the droplets. The adsorption layer of the wetting agents has a hydrophilicizing effect upon the solid particles and facilitates their contact with the liquid; this assures a better dust-powder. W. M. Sternberg